



2008 LMOP PROJECT EXPO WINDSOR-BLOOMFIELD LANDFILL



WINDSOR, CONNECTICUT

LANDFILL OVERVIEW

Open Year: 1973

Estimated Closure Year: 2010

*Waste in Place: 1.8 million tons

*Design Capacity: 2 million tons

*Annual Acceptance:
70,946 tons (2006)

Landfill Area: 50 acres

Number of Wells Installed:
43 (vertical); 7 (horizontal)

Flare in Place: Yes

Methane Content of Gas: 41.6%

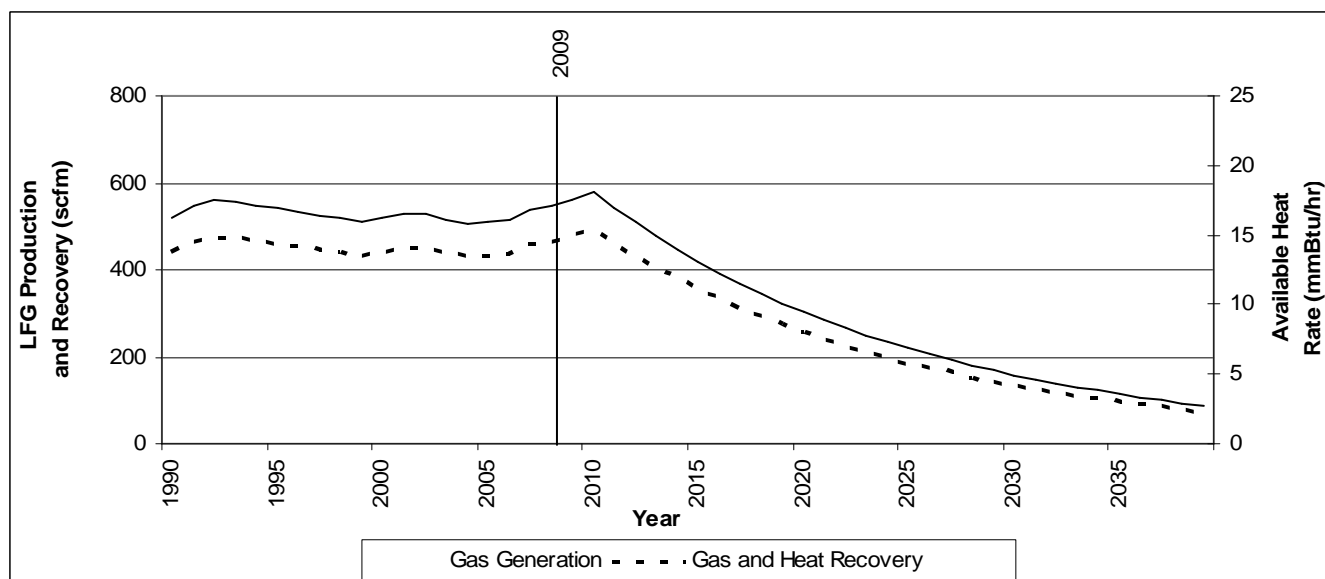
ENVIRONMENTAL BENEFITS

Windsor-Bloomfield Landfill reports that it is not currently required to collect and combust landfill gas under the Landfill NSPS/EG. Collection and control of the landfill gas at its estimated extraction rate of 476 scfm in 2009 would result in direct emission reductions of 47,000 metric tons of CO₂e and utilizing the gas to generate electricity would result in the avoidance of 6,900 metric tons of CO₂e emissions due to displaced electricity generation from conventional fossil fuel sources. These emission reductions are equivalent to any one of the following annual environmental benefits for 2009:

- Annual greenhouse gas emissions from 9,800 passenger vehicles
- Carbon sequestered annually by 12,200 acres of pine or fir forests
- CO₂ emissions from burning 280 railcars' worth of coal
- CO₂ emissions from 124,000 barrels of oil consumed

* Total waste tonnages are included for all years where MSW comprised at least 75% of the waste disposed. For years 2002 through 2008, LMOP used solely MSW tonnages to model LFG generation.

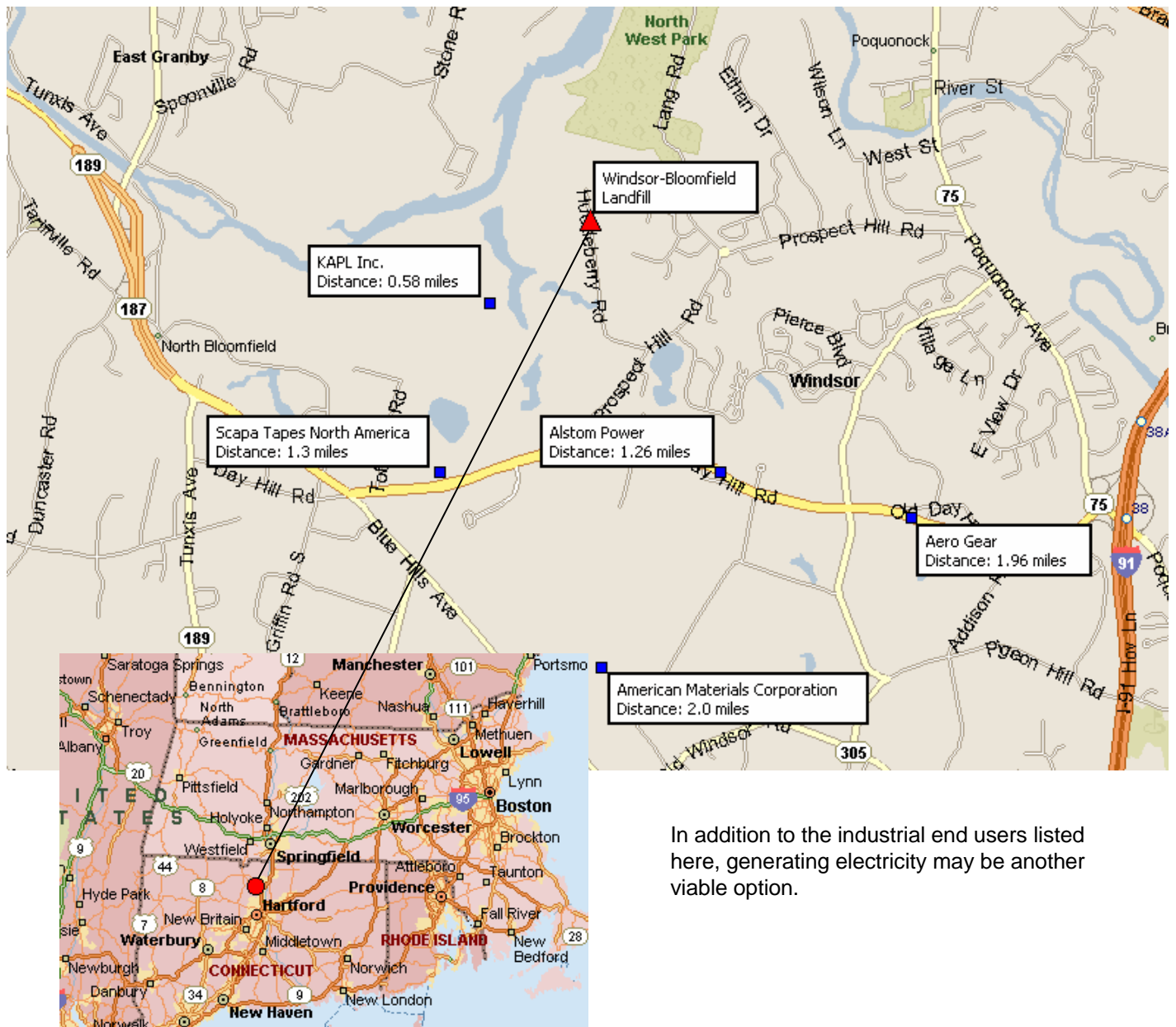
LANDFILL GAS AND ENERGY POTENTIAL



- Actual 2007 LFG Recovery:
461 scfm (at 41.6% CH₄)
383 scfm (corrected to 50% CH₄)

- LandGEM Peak Recovery Estimation: 493 scfm (in 2010)

LANDFILL LOCATION AND POTENTIAL END USERS



In addition to the industrial end users listed here, generating electricity may be another viable option.

ADDITIONAL INFORMATION

Several incentives for renewable energy exist in Connecticut.

- CT Clean Energy Fund makes early stage capital investments in projects that build consumer demand or produce clean power.
- CT RPS program: Prices for CT renewable energy credits (RECs) have ranged from 5 to 42 \$/MWh during years 2004 – 2006.
- Other State RPS programs: RECs generated in CT can be sold in other states' RPS programs, including MA and NJ.
- RI energy standard allows for purchase of renewables from other states that are part of the NEPOOL-GIS.

The landfill has had an engineer conduct a pre-feasibility study and gas sampling to evaluate LFG energy project potential.

FOR MORE INFORMATION

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